

Date: Sun, 14 Aug 94 04:30:14 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #281
To: Ham-Equip

Ham-Equip Digest Sun, 14 Aug 94 Volume 94 : Issue 281

Today's Topics:

 FT530 Dial Knob modification?
 IC 2GXAT Mods
 Test
 TS450SAT Mods?
 Wanted: Old Davco DR-30 Receiver
Working on TM-733 Mods.. anyone else?
Yaesu dualband mobile info needed
 Yasue 2M Mobile Tansceiver

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 10 Aug 1994 16:36:38 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!math.ohio-state.edu!
howland.reston.ans.net!vixen.cso.uiuc.edu!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!
krypton.hpc.sdsmt.edu!@@ihnp4.ucsd.edu
Subject: FT530 Dial Knob modification?
To: ham-equip@ucsd.edu

I have ft530. I like so much except the dial knob,
which is easily coming off. I heard the new ft530 has fixed
this problem. I wrote a letter to Yeasu, but never heard from them.
Is there anybody out there "how can I get the new knob or modification" ?
Thanks.
H.W. Paik KF0BI
e-mail hpaik@silver.sdsmt.edu

Date: 13 Aug 94 14:26:17 CDT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
swrinde!sdd.hp.com!saimiri.primate.wisc.edu!news.doit.wisc.edu!uwrf.edu!
enterprise!jw14@network.ucsd.edu
Subject: IC 2GXAT Mods
To: ham-equip@ucsd.edu

Are there mods available to alter the 2GXAT to transmit on commerical freqs?
Is this legal? I work for a radio station that has a couple of freqs
assigned to it, can I use this radio to transmit there legally under that
call sign?

--

Jason.A.Winget@uwrf.edu
WRFW 88.7 FM
306 North Hall
University of Wisconsin - River Falls
River Falls, WI 54022

Office # 715-425-3887

Date: Sun, 14 Aug 1994 22:14:21 GMT
From: dorite!keith.holli.com!kwolford@uunet.uu.net
Subject: Test
To: ham-equip@ucsd.edu

This is just a test

Date: 14 Aug 1994 05:07:12 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!newsserver.jvnc.net!
raffles.technet.sg!solomon.technet.sg!nunas@network.ucsd.edu
Subject: TS450SAT Mods?
To: ham-equip@ucsd.edu

Hi,

Does anyone out there have a list of mods (factory and otheerwise) for
the Kenwood TS450? Better still, does anyone have the mods in a form
that can be posted here?

I have a TS450 and it works fine. I don't believe that hams should

adhere to the rule "if it ain't broke don't fix it".

Thanks

Maurice 9V1ZS
from the land of endless summer

Date: Thu, 11 Aug 94 10:37:53 EST
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!swrinde!howland.reston.ans.net!wupost!
slacc.com!nf0r@network.ucsd.edu
Subject: Wanted: Old Davco DR-30 Receiver
To: ham-equip@ucsd.edu

Hello! I'm still looking for an old Davco DR-30 receiver. Also the
matching DR-30S power supply/speaker and a DT-20 SSB transmitter.

Prefer equipment in working condition but d.o.a. is probably okay too.

Davco quit making radios in the late sixties but there must be one or
two out there somewhere.

Please let me know if your would like to sell yours or know of someone
else who might be interested.

Many thanks de Dave, NF0R nf0r@slacc.com

--

SLACC STACK BBS - St. Louis, Missouri USA
The Bulletin Board Service of the St. Louis Area Computer Club
For information, email to: server@slacc.com Subject: HELP
 +1 314.367.1903

Date: Sun, 14 Aug 1994 06:50:44 GMT
From: vigra.com!news.vigra.com!steve@network.ucsd.edu
Subject: Working on TM-733 Mods.. anyone else?
To: ham-equip@ucsd.edu

Out of curiosity, I've been trying to figure out how other variants of
the Kenwood TM-733A can be easily "mutated" from the American "K"
version. If you're one of those folks that gets their panties all in
a bunch over the possibility of out-of-ham-band transmit, you can skip
this article. I'm responsible for my own transmissions, as is anyone
else.

Here's what I've come up with so far. I'm curious to know if anyone else has tinkered with this stuff. I figure since the radio is so new, every one out there is still under warranty, so there probably aren't many folks poking about with a soldering iron...

The K and P (Canadian) models seem physically identical so far. Only the warranty card has a different part number. Is there anything else I've missed?

The M2, M3, M4, and E2 models have the most liberal Tx frequency ranges: 136-174 & 410-470 MHz, instead of the US ("K") version's: 144-148 & 438-450.

The K version already has the widest 2m/70cm Rx range possible: 118-174 & 410-470, so there won't be any mods there.

The K and P models are lacking significant hunks of the 800 MHz Rx circuitry. In addition to some caps and inductors to link in the 800 MHz front end, IC202 is completely missing (the chip with "80R" output). I think it's a custom chip, so there's not much chance of finding one. ALL models other than K and P have this chip. If you're really desperate to get the 800 MHz Forbidden Band, you'll have to buy another radio, or try to order the chip from Kenwood Parts.

Also, K and P models have a "KCB20" for IC209 instead of KCB14. This is the "430 MHz Transmit Drive" chip. I think K is optimized for ~445 while the other is centered at ~435, but I'm guessing. The test/calibration instructions use different test frequencies for the two models, so there is probably some difference in the specs.

As for the CPU, it seems to detect which model it's in by reading pins 90 through 93 on power-up. (These are output lines to the DTMF encoder after power-up.) The pins are selectively pulled hi/low by wires and resistors to set the model.

If anyone knows how to override this setting by front-panel (software) controls, I'd be very interested to hear it!

As for hardware configuration, here's the info:

There are two wires (W1, W2) installed on the CPU board that apparently bypass resistors, tying the lines hi via 10k ohms (CP402 Rpack) instead of low via 100k resistors (CP403 Rpack). There are also three zero-ohm resistors that do something similar.

For those of you following along at home, that does indeed make five select lines, with only four going into the DTMF chip. :) I'm not sure about the fifth one, R413. It goes lots of places, including several

dispersed pins on the CPU. It's only installed on the M4 (Chinese) model of the radio. Since the M4 model also uses a Chinese front-panel display, this line probably selects different glyphs and such. It's also tied into the descriptionless pin 77 of the CPU, called "RPT" (cross-band repeat?). Maybe they can't sell cross-banders in China.

The other four: W1/R410, W2/R411, R412, and R414 are the selectors that pull on the DTMF data lines. If we ignore the M4 and E models (which have more unique components), the K and M2/3 models have only these differences:

	W1,2	R414
K,P	Yes	Yes
M2/3	No	No

I'd bet one of those accounts for the different Tx range limits on the CPU. Maybe the other allows for 800 MHz frequency tuning.

So, is anyone else working towards mods for this radio, however useless?

Happy Hacking!

-Steve

Steve Haehnichen
steve@vigra.com

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(619) 597-7080 x116 Fax: (619) 597-7094

Date: 12 Aug 1994 22:12:22 GMT
From: news.claremont.edu!kaiwan.com!kaiwan.kaiwan.com!johnscot@uunet.uu.net
Subject: Yaesu dualband mobile info needed
To: ham-equip@ucsd.edu

Steve Fluegel (steveflu@microsoft.com) wrote:

: I'm trying to decide which mobile dualbander to buy. Two that
: I'm considering are the Yaesu FT-5100 and FT-5200.

: I'd like to hear people's comments - what you like, what you
: don't like, usability, audio quality on xmt and recv,
: intermod performance, bugs, etc.

I own and use a ft5200

: Also, I have some questions:

: 1) I believe both of these have a data jack on the back -
: correct? Does it support 9600bps?

not on the 5200

: 2) Can these be remotely controlled via DTMF? (Yes, I am
: aware of the legal issues involved.)

unknown

: 3) Are there any differences between these two other than
: the 5200 having dual in-band receive and 32 memories and
: the 5100 offering remote mounting and 94 memories? Do they
: take all of the same accessories?

The front panel on the 5200 may be removed and a cable added for remote ops.

The only outputs on the back of the 5200 is dual speaker jacks. This
allows you to mount dual speakers left and right. the received signal
comes out on the band you have switched in to that side. this allows
quick definition of what band / signal is being received without looking
at the radio..

: Repond by
posting or feel free to email me directly at : steveflu@microsoft.com.

: Thanks,
: Steve (Tech+ callsign on the way!)

Overall this has ben a trouble free excellent radio and I would not
hesitate to buy Yaesu again..

John Scott de KD6VGA | went tech then tech+ now general
johnscot@kaiwan.com | it was all toooo easy...
from Burbank California USA |

Date: Sun, 7 Aug 1994 10:17:59 GMT
From: psinntp!hk.super.net!news.ust.hk!dma039.ust.hk!not-for-mail@uunet.uu.net
Subject: Yasue 2M Mobile Tansceiver
To: ham-equip@ucsd.edu

Dear All Hams,

I will buy a Mobile transceiver. To avoid QRM from the hamonic from
280Mhz paging transmtion, it should be good performance.

Please give me some suggestions. how about Yasue ft-2200, ft-2400 and
ft-2500.

VR2YJR

Michael Lo

Date: 11 Aug 1994 14:39:27 GMT
From: news.columbia.edu!namaste.cc.columbia.edu!jbaltz@RUTGERS.EDU
To: ham-equip@ucsd.edu

References <1994Aug9.113014.29715@ulb.isc.rit.edu>, <32812t\$104@hp-
col.col.hp.com>, <32ck1g\$6ht@kelly.teleport.com>namaste
Subject : Re: MARS/CAP

In article <32ck1g\$6ht@kelly.teleport.com>, <tigger@teleport.com> wrote:
>I don't know about MARS, but Civil Air Patrol operates on 148.15, with
>an offset of -4.25 for voice repeaters. They also have 149.925 for
>packet and one 10m freq I can't remember right now.
>

10m? You sure? 11m might be more like it--just south of the CB bands (26.620
MHz)

As far as I remember, that band was eschewed as soon as folks could get on
2m.

They're also using 148.975 I think.

>Max

//jbaltz
jerry b. altzman Entropy just isn't what it used to be +1 212 650 5617
jbaltz@columbia.edu jbaltz@sci.ccny.cuny.edu KE3ML (HEPNET) NEVIS::jbaltz

End of Ham-Equip Digest V94 #281
